

Date: Mon, 28 Jun 93 04:30:15 PDT
From: Ham-Policy Mailing List and Newsgroup <ham-policy@ucsd.edu>
Errors-To: Ham-Policy-Errors@UCSD.Edu
Reply-To: Ham-Policy@UCSD.Edu
Precedence: Bulk
Subject: Ham-Policy Digest V93 #208
To: Ham-Policy

Ham-Policy Digest Mon, 28 Jun 93 Volume 93 : Issue 208

Today's Topics:

Field Day Question
NQ0I Case : HF Vertical Antennas

Send Replies or notes for publication to: <Ham-Policy@UCSD.Edu>
Send subscription requests to: <Ham-Policy-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Policy Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-policy".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: Sun, 27 Jun 93 20:38:48 GMT
From: swrinde!gatech!news-feed-1.peachnet.edu!umn.edu!gaia.ucs.orst.edu!osshe.edu!
news.uoregon.edu!netnews.nwnet.net!serval!wsuaix.csc.wsu.edu!
i7994779@network.UCSD.EDU
Subject: Field Day Question
To: ham-policy@ucsd.edu

this was my first FD ever as a new HAM, I had a great time working the station
at W7BI in W Washington. It was especially fun since it was the first time I had
had ever been on the air!!!!

My question is this: Can you work a station on the same band different mode
and count it as a 2 FD contacts? Sat USB and FM on 2mtrs. Is that ok?
I wasn't sure, but the station I was contacting said it was a dup. Does anyone
out there know for sure. The people I was operating with said it would have been
ok.

Just curious!
kb7VPO
Patrick Walters

Date: 26 Jun 93 01:59:51 EDT
From: pacbell.com!iggy.GW.Vitalink.COM!wetware!spunky.RedBrick.COM!psinntp!
psinntp!arrl.org@network.UCSD.EDU
Subject: NQ0I Case : HF Vertical Antennas
To: ham-policy@ucsd.edu

In rec.radio.amateur.policy, gary@ke4zv.uucp (Gary Coffman) writes:

>>1Kw *somewhere*. Also, dipoles are much easier to match, but a full dipole
>>at AM BCB wavelengths is asking for trouble mechanically.
>
>Well, reflections will dissipate at the antenna after being re-reflected
>by the feed network so it isn't a question of what to do with the power.
>The problem is that mismatches change the relative phases and base currents
>in the individual elements. This skews the pattern from the desired value.
>At one 5 tower directional station where I worked, one of the towers had
>a design value of -205 watts at the base. It absorbed power that was then
>re-radiated by the other towers. Keeping a big array tuned to design values
>is a constant hassle. As soil conductivity changes over the course of a year,
>all the tower base networks have to be retuned again and again. And if there
>is new construction nearby, the array often has to be recalculated to maintain
>the desired pattern. Most broadcast elements are 5/8 wave rather than

I always thought that they were shorter than 5/8 wave to prevent the null that occurs when the substantial high angle radiation cancels the ground wave signal. Laport's Radio Antenna Engineering says that

"The optimum choice for antifading over land was experimentally established at about 190 degrees, or slightly over one half wavelength in height."

I'd certainly be interested in more modern techniques for handling this problem.

Zack Lau KH6CP/1

Internet: zlau@arrl.org "Working" on 24 GHz SSB/CW gear
 Operating Interests: 10 GHz CW/SSB/FM
US Mail: c/o ARRL Lab 80/40/20 CW
 225 Main Street Station capability: QRP, 1.8 MHz to 10 GHz
 Newington CT 06111 modes: CW/SSB/FM/packet
 amtor/baudot
Phone (if you really have to): 203-666-1541

>1/4 wave, so it's not so much a question of the ground mirror as it is

>of a conductive sheet in the near field.

Date: Sun, 27 Jun 1993 17:46:29 GMT
From: usc!cs.utexas.edu!asuvax!ennews!anasaz!misty!john@network.UCSD.EDU
To: ham-policy@ucsd.edu

References <1993Jun23.162055.2549@ke4zv.uucp>, <1993Jun24.181224.14042@leland.Stanford.EDU>, <1993Jun27.054747.17393@ke4zv.uucp>
Subject : Re: NQ0I Case : HF Vertical Antennas

gary@ke4zv.uucp (Gary Coffman) writes:

]In article <1993Jun24.181224.14042@leland.Stanford.EDU>
paulf@umunhum.stanford.edu (Paul Flaherty) writes:

]Having some experience with falling towers, ice loaded 1000 footers, I
]can say that they generally don't fall like trees. They buckle and fall
]in a heap around the base. That's not always true with small towers, of
]course, but small towers don't weigh nearly as much as a tree and don't
]do as much damage when they fall. A well engineered tower should be as
]strong as any other structure of the same height, however, so if buildings
]aren't blown down, the wind shouldn't blow down the tower either. I know
]it's a cliche that an antenna that stays up all winter is too small, but
]that's really just an example of bad engineering.

Well, we had an 80 foot monopole die from ice loading on a nearby mountain.
It split in two at the 40 foot level, and the upper 40 feet fell out
horizontally just like a tree. Thus THAT case would have used all of
a 40 foot setback. Had the bolts failed at the bottom, instead of halfway
up, the whole thing would have toppled. As it was, we added an accidental
skylight to MCI as a result of a sidearm punching through their roof:-)

--
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- - "May you have the wealth of a Republican, and the sexual prowess - -
- - of a Democrat." - Johnny Carson's joke writers

End of Ham-Policy Digest V93 #208
